L Number	Hits	Search Text	DB	Time stamp
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9	6	709/$ and (central manag$5) near2 server same remote same (tool task agent) near3 (propert$3 status state) and (restart$3 start$3) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 08:48
10	1	709/$ and (central manag$5) near2 server same remote same (tool task agent) near3 (propert$3 status state) same (restart$3 start$3) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 08:49
11	3	(central manag$5) near2 server same remote same (tool task agent) near3 (propert$3 status state) same (restart$3 start$3) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 08:52
12	3	(central manag$5) same server same remote same (tool task agent) near3 (propert$3 status state) same (restart$3 start$3) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 08:52
14	12	709/$ and (central manag$5) same server same remote same (tool task agent) same (propert$3 status state) same (restart$3 start$3) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 08:58
13	23	(central manag$5) same server same remote same (tool task agent) same (propert$3 status state) same (restart$3 start$3) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 09:23
15	28	(central manag$5) same server same remote same (tool task agent) same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 14:48
39	1	(central manag$5) same server same remote same task same agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 14:49
40	102	remote and (central manag$5) same server same task and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 14:50

41	36	709/223 and remote and (central manag$5) same server same task and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 14:50
44	0	709/223 and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 14:51
45	0	709/224 and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 14:51
46	0	709/202 and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 14:51
47	0	709/201 and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 15:14
48	2	709/$ and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 14:59
49	2	remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 14:59
55	0	709/219 and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 15:15
56	0	709/203 and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 15:15
57	0	340/3.1 and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 15:15
58	0	340/3.9 and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 15:15

54	1	709/217 and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 15:15
59	0	718/100 and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 15:16
60	1	718/$ and remote same (central manag$5) same server same task same agent and agent same (propert$3 status state) same (restart$3 start$3 initializ$5 reboot$4) and (@ad<20010413 @rlad<20010413)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 15:26
63	2	6654783.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/09 15:26

Terms used
central and **management** or **manage** and **server** and **task** and **agent** and **property** or **status** or **state** and **restar**

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1 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on C**
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index ter

Understanding distributed applications is a tedious and difficult task. Visualizations based on proce to obtain a better understanding of the execution of the application. The visualization tool we use developed at the University of Waterloo. However, these diagrams are often very complex and do desired overview of the application. In our experience, such tools display repeated occurrences of

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Kenneth P. Birman
December 1993 **Communications of the ACM**, Volume 36 Issue 12
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Keywords: fault-tolerant process groups, message ordering, multicast communication

3 APPL/A: a language for software process programming
Stanley M. Sutton, Dennis Heimbigner, Leon J. Osterweil
July 1995 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume
Full text available: pdf(4.89 MB) Additional Information: full citation, abstract, references, citings, ir

Software process programming is the coding of software processes in executable programming lar offers many potential benefits, but their realization has been hampered by a lack of experience in programming languages. APPL/A is a prototype software process programming language develope is intended for the coding of programs to represent and support software processes including proc

Keywords: consistency management, multiparadigm programming languages, software process p management

4 Distributed systems - programming and management: On remote procedure call
Patrícia Gomes Soares

November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on C Volume 2**

Full text available: pdf(4.52 MB) Additional Information: full citation, abstract, references, citings

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the l mechanisms that support it. An overview of works in supporting these mechanisms is discussed. E have been proposed to enlarge its suitability, are studied. The main contributions of this paper are classification of RPC mechanisms according to different perspectives, and a snapshot of the paradi t ...

5 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume

Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, citings, ir

Since the early days of logic programming, researchers in the field realized the potential for exploi the execution of logic programs. Their high-level nature, the presence of nondeterminism, and the among other characteristics, make logic programs interesting candidates for obtaining speedups tl same time, the fact that the typical applications of logic programming frequently involve irregular

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, pr

6 Distributed environment: Network management by delegation: the MAD approach

German Goldszmidt, Yechiam Yemini, Shaula Yemini

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Cc**

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7 The envoy framework: an open architecture for agents

Murugappan Palaniappan, Nicole Yankelovich, George Fitzmaurice, Anne Loomis, Bernard Haan, Jam

July 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 3

Full text available: pdf(2.47 MB) Additional Information: full citation, abstract, references, citings, ir

The Envoy Framework addresses a need for computer-based assistants or agents that operate in c applications, helping them perform tedious, repetitive, or time-consuming tasks more easily and e missions for users by invoking envoy-aware applications called operatives and inform users of mis applications called informers. The distributed, open architecture developed for Envoys is derived fr

Keywords: application programmer interface, user agent

8 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, ir

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9 Specification and implementation of exceptions in workflow management systems
Fabio Casati, Stefano Ceri, Stefano Paraboschi, Guiseppe Pozzi
September 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 3

Full text available: pdf(250.40 KB) Additional Information: full citation, abstract, references, citings, ir

Although workflow management systems are most applicable when an organization follows standa routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and ar outside the normal control flow.In this paper we concentrate upon anomalous situtations that, altl semantics of workflow applications, and should be specified and monitored coherently; in most rea

Keywords: active rules, asynchronous events, exceptions, workflow management systems

10 Office Information Systems and Computer Science
Clarence A. Ellis, Gary J. Nutt
January 1980 **ACM Computing Surveys (CSUR)**, Volume 12 Issue 1

Full text available: pdf(2.87 MB) Additional Information: full citation, references, citings, index terms

11 The impact of object technology on commercial transaction processing
Edward E. Cobb
August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volu

Full text available: pdf(649.17 KB) Additional Information: full citation, abstract, index terms

Businesses today are searching for information solutions that enable them to compete in the globa these solutions must build on existing investments, permit the best technology to be applied to th Object technology, with its promise of improved productivity and quality in application developmer but, to date, its deployment in commercial business applications has been limited. One possible re

Keywords: Objects, Workflow, transaction processing

12 Metaheuristics in combinatorial optimization: Overview and conceptual comparison
Christian Blum, Andrea Roli
September 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 3

Full text available: pdf(431.84 KB) Additional Information: full citation, abstract, references, index ter

The field of metaheuristics for the application to combinatorial optimization problems is a rapidly g due to the importance of combinatorial optimization problems for the scientific as well as the indus the nowadays most important metaheuristics from a conceptual point of view. We outline the diffe that are used in the different metaheuristics in order to analyze their similarities and differences. T

Keywords: Metaheuristics, combinatorial optimization, diversification., intensification

13 Process migration
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, ir

Process migration is the act of transferring a process between two machines. It enables dynamic l eased system administration, and data access locality. Despite these goals and ongoing research e achieved widespread use. With the increasing deployment of distributed systems in general, and d particular, process migration is again receiving more attention in both research and product devel

Keywords: distributed operating systems, distributed systems, load distribution, process migratic

14 A checkpointing strategy for scalable recovery on distributed parallel systems
Vijay K. Naik, Samuel P. Midkiff, Jose E. Moreira
November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(144.90 KB) Additional Information: full citation, abstract, references

In this paper, we describe a new scheme for checkpointing parallel applications on message-passi systems. The novelty of our scheme is that a checkpointed application can be restored, from its ch reconfigured form. Thus, a parallel application may be checkpointed while executing with **t1** tasks restarted from the checkpointed state with **t2** tasks on **p2**
Keywords: DRMS, IBM RS/6000 SP, checkpointing and restart, parallel checkpointing, re scalable recovery

15 The family of concurrent logic programming languages
Ehud Shapiro
September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available: pdf(9.62 MB) Additional Information: full citation, abstract, references, citings, ir

Concurrent logic languages are high-level programming languages for parallel and distributed syst both known and novel concurrent programming techniques. Being logic programming languages, t of the abstract logic programming model, including the logical reading of programs and computati representing data structures with logical terms and manipulating them using unification, and the a metaprogrammin ...

16 The structure of Cedar
Daniel C. Swinehart, Polle T. Zellweger, Robert B. Hagmann
June 1985 **Proceedings of the ACM SIGPLAN 85 symposium on Language issues in progr** 20 , 18 Issue 7 , 6

Full text available: pdf(1.79 MB) Additional Information: full citation, abstract, references, citings, ir

This paper presents an overview of the Cedar programming environment, focusing primarily on its components of Cedar and the way they are organized. Cedar supports the development of prograr programming language, also called Cedar. We will emphasize the extent to which the Cedar langu influenced the organization, comprehensibility, and stability of Cedar. Produced in the Computer S

17 Decentralizing a global naming service for improved performance and fault tolerance
D. R. Cheriton, T. P. Mann
May 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 2

Full text available: pdf(3.19 MB) Additional Information: full citation, abstract, references, citings, ir

Naming is an important aspect of distributed system design. A naming system allows users and pr string names to objects, and subsequently use the names to refer to those objects. With the inter computers by wide-area networks and internetworks, the domain over which naming systems mu encompass the entire world. In this paper we address the problem of a global naming system, pro

18 Lightweight recoverable virtual memory
M. Satyanarayanan, Henry H. Mashburn, Puneet Kumar, David C. Steere, James J. Kistler
February 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 1

Full text available: pdf(1.73 MB) Additional Information: full citation, abstract, references, citings, ir

Recoverable virtual memoryrefers to regions of a virtual address space on which transactional gua describes RVM, an efficient, portable, and easily used implementation of recoverable virtual memc unique characteristic of RVM is that it allows independent control over the transactional properties serializability. This leads to considerable flexibility in the use of RVM, potentially enla ...

Keywords: Camelot, Coda, RVM, Unix, logging, paging, persistence, scalability, throughput, trunc

19 Cluster resource management: An integrated experimental environment for distributed syste
Brian White, Jay Lepreau, Leigh Stoller, Robert Ricci, Shashi Guruprasad, Mac Newbold, Mike Hibler,
December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available: pdf(2.10 MB) Additional Information: full citation, abstract, references

Three experimental environments traditionally support network and distributed systems research: simulators, and live networks. The continued use of multiple approaches highlights both the value Netbed, a descendant of Emulab, provides an experimentation facility that integrates these approa configure and access networks composed of emulated, simulated, and wide-area nodes and links. *ease ...*

20 Models: Process inheritance and instance modification
Guangxin Yang
November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Suppor**

Full text available: pdf(376.03 KB) Additional Information: full citation, abstract, references, index ter

Process technologies play an increasingly important role as the world is being digitalized in nearly obstacles to their massive deployment include reusability and adaptivity. This paper addresses the single solution: process inheritance. We discuss what process inheritance is, what mechanisms are it can be used to handle exceptions effectively. The ideas and mechanisms are implemented in the

Keywords: dynamic modification, inheritance, process language

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central management server and **task** and **agent** and **property** or **status** or **state** and **restart** or **start** or **initializ**

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August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume

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Businesses today are searching for information solutions that enable them to compete in the globa marketplace. To minimize risk, these solutions must build on existing investments, permit the bes to be applied to the problem, and be manageable. Object technology, with its promise of improvec and quality in application development, delivers these characteristics but, to date, its deployment business applications has been limited. One possible reason is the ...

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Christian Blum, Andrea Roli

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Keywords: Metaheuristics, combinatorial optimization, diversification., intensification

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Keywords: distributed operating systems, distributed systems, load distribution, process migratic

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Fabio Casati, Stefano Ceri, Stefano Paraboschi, Guiseppe Pozzi
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Keywords: active rules, asynchronous events, exceptions, workflow management systems

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M. Satyanarayanan
August 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 3

Full text available: pdf(2.90 MB) Additional Information: full citation, abstract, references, citings, index terr

Andrew is a distributed computing environment that is a synthesis of the personal computing and paradigms. When mature, it is expected to encompass over 5,000 workstations spanning the Carn University campus. This paper examines the security issues that arise in such an environment and mechanisms that have been developed to address them. These mechanisms include the logical an separation of servers and clients, support for secure communication ...

17 Lightweight recoverable virtual memory
M. Satyanarayanan, Henry H. Mashburn, Puneet Kumar, David C. Steere, James J. Kistler
February 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 1

Full text available: pdf(1.73 MB) Additional Information: full citation, abstract, references, citings, index terr

Recoverable virtual memoryrefers to regions of a virtual address space on which transactional gua

offered. This article describes RVM, an efficient, portable, and easily used implementation of recov memory for Unix environments. A unique characteristic of RVM is that it allows independent contr transactional properties of atomicity, permanence, and serializability. This leads to considerable fl use of RVM, potentially enla ...

Keywords: Camelot, Coda, RVM, Unix, logging, paging, persistence, scalability, throughput, trun

18 Models: Process inheritance and instance modification

Guangxin Yang

November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Suppor work**

Full text available: pdf(376.03 KB) Additional Information: full citation, abstract, references, index terms

Process technologies play an increasingly important role as the world is being digitalized in nearly The major obstacles to their massive deployment include reusability and adaptivity. This paper ad two crucial problems with one single solution: process inheritance. We discuss what process inheri mechanisms are needed to support it, and how it can be used to handle exceptions effectively. Th mechanisms are implemented in the runtime system of a p ...

Keywords: dynamic modification, inheritance, process language

19 Decentralizing a global naming service for improved performance and fault tolerance

D. R. Cheriton, T. P. Mann

May 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 2

Full text available: pdf(3.19 MB) Additional Information: full citation, abstract, references, citings, index terr

Naming is an important aspect of distributed system design. A naming system allows users and pr assign character-string names to objects, and subsequently use the names to refer to those objec interconnection of clusters of computers by wide-area networks and internetworks, the domain ov naming systems must function is growing to encompass the entire world. In this paper we addres of a global naming system, proposing a three-level naming ...

20 Cluster resource management: An integrated experimental environment for distributed syste networks

Brian White, Jay Lepreau, Leigh Stoller, Robert Ricci, Shashi Guruprasad, Mac Newbold, Mike Hibler, Abhijeet Joglekar

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available: pdf(2.10 MB) Additional Information: full citation, abstract, references

Three experimental environments traditionally support network and distributed systems research: emulators, network simulators, and live networks. The continued use of multiple approaches highl value and inadequacy of each. Netbed, a descendant of Emulab, provides an experimentation facil integrates these approaches, allowing researchers to configure and access networks composed of simulated, and wide-area nodes and links. Netbed's primary goals are *ease* ...

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1 **Intelligent agent platform for procurement**
Subramanian, K.; Lee, S.; Tey Kar Shiang; Gan Beng Sue;
Systems, Man, and Cybernetics, 1999. IEEE SMC '99 Conference Proceedings. IEEE International Conference on , Volume: 3 , 12-15 Oct. 1999
Pages:107 - 112 vol.3

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1 **An implementation of gateway system for heterogeneous protocols ATM network**
Sung Kee Noh; Seok Ho Lee;
Communications, Computers and Signal Processing, 1997. '10 Years PACRIM 1997 - Networking the Pacific Rim'. 1997 IEEE Pacific Rim Conference on , Vol 2 , 20-22 Aug. 1997
Pages:535 - 538 vol.2

[Abstract] [PDF Full-Text (408 KB)] **IEEE CNF**

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2 **Process management inside ATLAS DAQ**
Alexandrov, I.; Amorim, A.; Badescu, E.; Burckhart-Chromek, D.; Caprini, M., Dobson, M.; Duval, P.Y.; Hart, R.; Jones, R.; Kazarov, A.; Kolos, S.; Kotov, V. Liko, D.; Lucio, L.; Mapelli, L.; Mineev, M.; Moneta, L.; Nassiakou, M.; Pedro, Ribeiro, A.; Roumiantsev, V.; Ryabov, Y.; Schweiger, D.; Soloviev, I.; Wolters
Nuclear Science Symposium Conference Record, 2001 IEEE , Volume: 1 , 4-1(Nov. 2001
Pages:511 - 514 vol.1

[Abstract] [PDF Full-Text (269 KB)] **IEEE CNF**

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